Focus Area D – Laboratory Capacity (Chemical Agents) April 2004 Progress Report

[CC-10::RA-1]	Hire and tra coordinator	in a chemical t	errorism laborato	ory coordinator (chemist or m	edi	cal technologist) and assistant		
Status Complete:	Completed	Fund Commi	tted: \$.00		Yes	Anticipate Redirecting Funds? No		
Percent Complete:	100%	Funds Expen	ded: \$.00	with in the Budget Year?	L			
Grantee Activity:			Grantee Activity Progress:			Barriers:		
A. Hire a Chemical Tooordinator and Ass Coordinator B. Trair Coordinator and Ass advise the laborator Terrorism Coordinat and environmental I chemical terrorism i preparedness. C. Es collection and transp to laboratories capa threat agents.	istant Labora the CT Labora sistant Coord y director, the or and other nealth officia ncidents and tablish comport of clinica	atory pratory inator to ne State public health ls about netency in al specimens	a CT Laboratory Laboratory Coorwith Supplemen and C, respectiv Coordinator was position and hire A - Preparednes Assessment. This a Ph.D. bioche Laboratory Scier laboratory Scier laboratory super toxicology consume toxicology for the Focus of activities support Capacities and EB. Both position advise State, other toxicology consumental interrorism incider C. In partnershiphave developed county public hetransport of clinical toxicology in their juri presented this transport of clinical toxicology.	a program hired and supported Coordinator and an Assistant dinator in the current year tal funds from Focus Areas A rely. The Laboratory is established as a civil service of with funds from Focus Areas Planning and Readiness is Laboratory Coordinator hired emist and California Clinical intist with experience in clinical intist with funds from Focus Area Capacity for Biologic Agents. Sordinator hired is Ph.D. In the stablished as a civil service in the college level science includes in the college level science includes in the foliation of the public health, and in the college level science in the focus Area D Critical in the public health, and in the public health, and in the public health, we approgram where FA-D trains the hospitals, clinics and sidiction. We currently have raining to staff from nearly all es. We will have covered all end of this grant period.	t list and l	None		

[CC-10::RA-2]	Develop a co within your j	ronme	ental testing, and other laboratories			
Status Complete:	In Progress	Fund Commi	tted: \$.00		Yes	Anticipate Redirecting Funds? No
Percent Complete:	51%-75%	Funds Expen	ded: \$.00	with in the Budget Year?		
Grantee Activity:			Grantee Act	ivity Progress:	Barriers:	
A. Identify the public environmental testir federal laboratories coordination with LA involved in a responsincident B. Identify contacts with these laborator capabilities, capaciti and responsibilities. C. In conjunction wire comprehensive mediaboratory data to penforcement agencie terrorism LRN laborators	ng, and other within Califor County) that se to a chem and establish ies. Documer es, and self-ieth Focus Area hanism for reublic health oes, and other	state and rnia (in t may be ical terrorism relationships at their dentified rolls a E, draft a porting fficials, law chemical	laboratories to a chemica Inter-Laborat the Division of together Fed laboratories to response, b. State and Fe Workshops, v. components our various of have contribut to the Compiby the Division of the Compibility of the Compibility of the Division of the Compility of the Compility of the Division of the Compility of the Compili	dentified the wide group of that may be involved in a responsation of the control	The by m d by gional to We hip, pped ional	

public health response, including providing toxicology fact information on the agents involved, providing health impact forecasts and surveys, tracking the long-term impact on workers, as well as the affected population, and laboratory response (collection and shipping of biological samples). B. We have developed contacts with public health, food testing, environmental testing, and other state and federal laboratories within California. Examples are: Paul Duffey, Microbial Disease Branch (510-412-3729), for the laboratory response to biological agents, Tom Sidebottom, USFDA (510-637-3960) and Leta Crawford-Miksza, Division of Food, Drug and Radiation Safety (510-412-6233), on food safety issues, Kusum Perera, Division of Drinking Water & Environmental Management (510-620-2915), on drinking water issues, Victor Anderson, Radiation Health Branch (916-440-7931), on radiation contamination, Kathleen Fallis, 95th CST (510-780-0683), concerning on-scene support and environmental sample collection, and Paul Spackman, Lawrence Livermore National Laboratory (925-422-7716), on WMD agent issues. C. In this grant period, in conjunction with FA-E, we have identified partners for a pilot data sharing and warehousing project. We are meeting with these partners to identify common goals and establish common protocols.

[CC-10::RA-3]		e comprehensive response plan, relationshederal law enforcement, and the Army Na		
	In Progress Fund Committee	d: \$.00 Anticipated Completing with	Yes	Anticipate Redirecting Funds? No
Percent Complete:	51%-75% Funds Expended	d: \$.00 in the Budget Year?		
Grantee Activity:		Grantee Activity Progress:		Barriers:
relationships as the are missing in the c year progress repor develop a plan to co document the relati	,	Our response plan treats how we will wor partners within the Department of Health and outside of the Department. Key orga (and lead contacts) include: Division of Communicable Disease Control (Debra Gi 540-3386, and Paul Duffey, 510-412-372 response to biological agents, with USFD/Sidebottom, 510-637-3960) and the Divi Food, Drug and Radiation Safety (Leta Cr Miksza, 510-412-6233) on food issues, w Division of Drinking Water & Environment Management (Kusum Perera, 510-620-29 drinking water issues, with the Radiation Branch (Victor Anderson, 916-440-7931) radiation contamination, with the 95th CS (Kathleen Fallis, 510-780-0683) concerni scene response and environmental sampicollection issues, and with Lawrence Live National Laboratory (Paul Spackman, 925 7716) on WMD agent issues.	Services nizations viliss, 510-9) on the control of awford-ith the al 15) on Health on Triang on-e more	-

[CC-10::RA-4]	oin the che	mical terrorism	componer	twork (LRN)		
Status Complete: I	n Progress I	Fund Commit		Anticipated Completing	Yes	Anticipate Redirecting Funds?	No
Percent Complete:	51%-75% I	Funds Expend	l ed: \$.00	with in the Budget Year?			
Grantee Activity:			Grantee A	Activity Progress:		Barriers:	
our Level One and Tw provide reach-back co Level One and Two La	CCTLRN and functions apacity for patconatories	d will support . We will also proposed in Nevada Jnderstanding	developme they did no understand California's Three and	f understanding with Nevada is unent. The LA County Lab decided the ot want to have a memo of ding with the FA-D laboratory pros FA-D program is current with the Two activities released by CDC. It staff are registered with the LRN	nat ogram. e Level Key	Adding Focus Area D staff to the L was complicated because no Focus Area D staff held administrator rig Adding staff required approval of administrator in Focus Area C, who was not well acquainted with need Focus Area D.	s hts. an o

[CC-10::RA-5] Enhance relationships wit	th other chemical terrorism-related resources			
Status Complete: In Progress Fund Comm	itted: \$.00 Anticipated Completing	Yes Aı	nticipate Redirecting Funds?	No
Percent Complete: 51%-75% Funds Exper	nded: \$.00 with in the Budget Year?			
Grantee Activity:	Grantee Activity Progress:		Barriers:	
terrorism-related resources is described in various division-level response plans. Focus Area D personnel will be responsible for writing a section in the response plan that identifies federal, state, local and private sector chemistry laboratories that are likely to be involved in chemical terrorism laboratory response. Through outreach efforts and meetings, staff will document self-identified roles and responsibilities of lab partners and establish the ways in which these laboratory partners would interact in a chemical terrorism event.	We developed enhanced relationships with local health laboratories, local hazmat, fire and law enforcement organizations and other state and terrorism response agencies through a series of training activities that were built around the prohuman sample collection and transportation. We presented our training module, "Collection, Pacific Shipping of Biological Specimens in a Chemical the following dates:04/03/2003 Training session Richmond (45 attendees) 04/04/2003 Training session attendees) 05/01/2003 Chemical Terrorism Presymposium at Newport Beach (240 attendees) 05/12/2003 Training session at San Diego (15 a 05/13/2003 Training session at El Centro, Impe (15 attendees) 06/20/2003 Training session at (30 attendees) 08/07/2003 Training session at Richmond Laboratory for Ala County (30 attendees) 09/30/2003 Training at Modesto, Stanislaus County (30 attendees) 1 Training Session at Richmond Laboratory for Ala County (30 attendees). In addition to training local staff in sample colle organized and participated in a regional sympos "Training for a Chemical or Radiological Incident September 3, 2003, at the Radisson Hotel & Cocenter in Fresno. Public and environmental heal six neighboring counties (Fresno, Madera, King, Tulare and Riverside) attended. Eighty-five persattended from local Hazmat, fire and law enforcemergency operations centers, environmental heal six neighboring counties (Fresno, Madera, King, Tulare and Riverside) attended. Eighty-five persattended from local Hazmat, fire and law enforcemergency operations centers, environmental heal six neighboring counties (Fresno, Madera, King, Tulare and Riverside) attended. Eighty-five persattended from local Hazmat, fire and law enforcemergency operations centers, environmental heal six neighboring counties (Fresno, Madera, King, Tulare and Riverside) attended. Eighty-five persattended from local Hazmat, fire and law enforcemergency Management System (SEMS) in presand responding to a chemical event. Feedback fattendees was overwhelmingly positive. Three r si	federal fregional ptocols for e kaging an Event" or n at session a at LA (30 paration attendees rial Coun Redding Oroville, ng Sessio 2/09/200 ameda ction, we sium: t", nference th staff o Kern, sons tement, nealth, Nurses ar nat is m paring for from more in Santa	d n t t) ty n 3 f	

[EC-7 ::EA-1]	Develop or enh	ance plans and	d protocols			
Status Complete:	In Progress	Fund Commi	tted: \$.00	Anticipated Completing	Yes	Anticipate Redirecting Funds? No
Percent Complete:	Less than 25%	Funds Expen	ded: \$.00	with in the Budget Year?		
Grantee Activity:			Grantee A	Activity Progress:		Barriers:
California is an exist and we have set out activities in the precentles add specimen transport a safety, (c) appropriate conditions for working the safety of the safety o	a program for eding sections. ress activities (and handling, (late Bio-Safety Ling with clinical sing of personnet, (f) internal ath) secure stora of forensic values and eto chemical terroll address activitizing intake an	Level One Together a) clinical b) worker evel (BSL) specimens, el, (e) quality and external ge of critical e, and (i) quipment brism events. ity (g) triage d testing of sis.	and Respo tasked witl prioritizing samples pr Assistant E (ADDLS) h to nominat volunteers Campus (R constituted 1. Devel triage 2. Be tra spills at coming screened team. In addition	of Laboratory Resource Preparanse (LRPR) has been established developing triage procedures intake and testing of specimerior to laboratory analysis. The Deputy Director for Laboratory as asked each branch laboratory to serve on a Richmond Laboratory to serve on a Richmond Laboratory. BLC) Hazmat team. When the total they will: lop protocols for sample receipt ained to handle hazardous materials to the RLC and hazardous sample to the RLC that have not been also by the FBI or another local Hay the ADDLS has asked for a listeople from each laboratory that	d and for s or Science y chief al al attory am is and crials s ield izmat t of	Significant barriers are: A. Lack of funds: No agency is clearly responsible for establishing an all-hazards triage lab. Therefore, while we have scraped together miscellaneous equipment with various funding sources, no one has stepped forward with the considerable funds necessary for an isolated, stand-alone triage lab. This lab must be isolated to prevent contamination, injury or death in the main facility in the event of an extreme mishap during the initial screening of an unknown specimen. B. Lack of consensus protocol: Despite the intense interest in a rational procedure for initially screening an unknown specimen, no authoritative group has issued a protocol.

participate in technical consultations regarding unknown specimens handling and assessment. This All Hazard Triage Laboratory technical advisory group would be assembled on an adhoc basis in an "emergency" and may meet periodically for tabletop exercises. This technical advisory group will be coordinated by the LRPR.	
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	methods, partio	cipate in profic	ciency testing			ire and train staff, implement analy ency in the analysis of Level-Two	tical
Status Complete:	In Progress	Fund Commi	tted: \$.00	Anticipated Completing	Yes	Anticipate Redirecting Funds?	No
Percent Complete:	Less than 25%	Funds Expen	nded: \$.00	with in the Budget Year?			
Grantee Activity:			Grantee Ac	tivity Progress:		Barriers:	
As a Level 3 laborate CDC, California has and trained staff, im methods, successful test programs and dithe analysis of chem registered at CTQ Q purchased PE sampl continue to work wit goals and objectives Plasma/Mass Spectr Chromatograph/Mas (GC/MSD) instrume Staff has being train technique for metal scheduled for trainin 2003.	purchased equipplemented analy participated i lemonstrated colical agents. We uebec, Canada, es for metals. We in CDC to achieve the Inductive ometer (ICP/MS is Selective Detents are deployed at the CDC i analysis. Other	pment, hired lytical n proficiency ompetency in a have and Ve will ve future ly Coupled 5) and Gas ector d and in use. n the ICP/MS staff is	Spectromete Chromatogra (GC/MSD) ir Staff has convalidation in detection. W proficiency t	vely Coupled Plasma/Mass er (ICP/MS) and Gas aph/Mass Selective Detector astruments are deployed and in mpleted training and method the metals screen and cyanide Ve have successfully completed testing in both	use.	None	

	Participate in a to detect and ic	terro	rism laboratory readiness and capa	bility			
Status Complete:	In Progress	Fund Commi	tted: \$.00		Yes	Anticipate Redirecting Funds?	No
Percent Complete:	Less than 25%	Funds Expen	ded: \$.00	with in the Budget Year?			
Grantee Activity:			Grantee A	ctivity Progress:		Barriers:	
CDHS will participate Focus Area A, under Emergency Services Participate in at leas 2004 or as schedule	the auspices of , State of Califo t one exercise t	the Office of rnia.	9-10. A sec	nated in a Statewide exercise on M cond, Division-wide, exercise is for May 19, 2004.	larch	None identified.	

	Use BSL-2 prac 4th Edition" (Bl	n Micr	robiological and Biomedical Laborato	ries,			
Status Complete:	In Progress	Fund Commit	tted: \$.00	Anticipated Completing	Yes	Anticipate Redirecting Funds?	No
Percent Complete:	Less than 25%	Funds Expen	ded: \$.00	with in the Budget Year?			
Grantee Activity:			Grantee A	ctivity Progress:		Barriers:	
All laboratory persor training (aka, Univer they are hired, and y staff will be trained if of sample receipt an "All Hazards Triage" DHS Office of Laboratory Responsible Laboratory Campus.	rsal Precautions yearly thereafte in hazmat proto d screening pro Lab being estal atory Resources e at the Richmo	at the time er. Selected cols as part stocols in the blished by the	radiological Assurance Health Labo training is of for the triag	teived biohazard, chemical, and I safety training. The Quality Officer (QAO) of the Environmen oratory Branch ensures that this current, as required by CLIA. Truge lab will be under the auspices of Laboratory Resources and Response.	: aining	Staff time is limited Funds are not available for construction of the triage lab	

[EC-7 ::EA-5]	At a minimum, ensure that laboratory security is consistent with standards set forth in the Select Agent Rule							
Status Complete:	In Progress	Fund Commi	tted: \$.00	Anticipated Completing Ye	Yes	Anticipate Redirecting Funds?	No	
Percent Complete:	Less than 25%	Funds Expen	ded: \$.00	with in the Budget Year?				
Grantee Activity:	Grantee Activity:			ctivity Progress:	Barriers:			
The Select Agent rul provisions apply to oricin. Should CDC tracennology to the lathe PATRIOT Act of meet these requiren the Richmond Labor occupy during the born handling chemics constructed to meet torch designation.	certain biotoxing ansfer ricin ana b, we will comp 2001. Building s nents is part of atory Facility, w udget year. Spe al terrorism age	s such as lysis ly fully with security to the design of which we will ecific rooms ents were	beginning of change, so	requirement of this section at f the grant period. There has bo we are still current.		None.		

[EC-7 ::EA-6]		document Inter chemical labora			tion via	a the Internet for information and data
Status Complete:	In Progress	Fund Commi	tted: \$.00	Anticipated Completing	Yes	Anticipate Redirecting Funds? No
Percent Complete:	Less than 25%	Funds Expen	ded: \$.00 with in the Budget Year?			
Grantee Activity:			Grantee A	ctivity Progress:		Barriers:
CDHS has proposed address laboratory of sections detail our processing detail our processing according (including ISO and (Integrate Different Integrate different Integrate different pand data structures both within the Stat and through partner private, or federal laplanning, design, datesting, and deployr Reporting, Following Machine/Information Advance integration output into laborato systems (LIMS) and Reduce data input enhance confidential results. 4. Develop Access, Organization	connectivity. The proposal: 1. State Data and Reporters to standary to industry state CLIA) and CDC Software Environment of the environment of the environment of the environment. In the environment of th	ne following andardize orting Work rdize andards guidelines. 2. onments ating systems, ple tracking laboratory er public, regrate system evelopment, or Electronic face astrument management lata reporting. Imple errors, and ey of analytical gemote Data	we have ide sharing net participants county heal Monterey). each progra interest from We have su analytical consystems. The common into haven't tak on a statem the data tra	ulti-year project. In this grant poentified five partners for a pilot of work. They are two state level is (Nevada and Los Angeles) and lith laboratories (Fresno, Orange We have identified the IT contains and secured an assurance of mithem and the laboratory directively of the laboratories existing apabilities and current data han ne next step is to meet to exploiterests and set goals. However, en that step because it is dependent from State-level IT concernansmission system we can use, a sent is still missing.	three and ct in ctor. gdling re we dent ing	To conserve resources, to prevent introducing yet another data handling protocol, and because we are a very small working group, we prefer to append our data collection onto one of two state-of-the-art systems being developed by other, larger, units (CELDAR and RASSCLE). While the managers of both projects have welcomed our possible inclusion, neither project is progressing at the speed we expected. As a consequence, we will begin experimenting with a smaller stand-alone program. This will give us experience in cooperative data sharing, even though it is not sufficiently powerful to support a wider laboratory network.

-	Level-Three laboratories must, in collaboration with CDC, purchase equipment, hire and train staff, implement analytical methods, participate in proficiency testing programs, and demonstrate competency in the analysis of Level-Three chemical agents								
Status Complete:	In Progress Fund Committed: \$.			I: \$.00 Anticipated Completing Yes A		Anticipate Redirecting Funds?	No		
Percent Complete:	Less than 25%	Funds Expen	ded: \$.00	with in the Budget Year?					
Grantee Activity:			Grantee Activity Progress:			Barriers:			
As a Level 3 laborate CDC, California has and trained staff, im methods, successful test programs and d the analysis of chem to work with CDC to objectives.	purchased equi plemented ana ly participated i emonstrated co lical agents. We	oment, hired lytical n proficiency ompetency in will continue	Attempts to the Researc viable candi at the Resea been annou	ent in all Level-Three activities. backfill the laboratory vacancy h Scientist I level failed to attra date. Permission was received tarch Scientist II level. The job hoced and candidate interviews ato begin by the end of April.	ct a o hir as	Very difficult to back-fill for vac State positions. Very difficult to develop person services contract for two contract chemists.	nal		

	Participate in at least one exercise per year that specifically tests chemical terrorism laboratory readiness and capability to detect and identify at least two chemical-threat agents									
Status Complete:	In Progress	Fund Committed: \$.00		Anticipated Completing	Yes	Anticipate Redirecting Funds?	No			
Percent Complete:	Less than 25%	Funds Expen	ded: \$.00	with in the Budget Year?						
Grantee Activity:			Grantee Activity Progress:			Barriers:				
CDHS will participate Focus Area A, under Emergency Services Participate in an exe agent 2. Participate involving a Level The	the auspices of , State of Califo crcise involving in at least one	f the Office of ornia. 1. a Level Two	will test read agents.	exercise is scheduled for May diness and response to two che		None identified.				

[EC-8 ::EA-3]	In collaboration with CDC and other Level-Three laboratories, participate in method development and validation studies									
Status Complete:	In Progress	n Progress Fund Committed:		Anticipated Completing		Anticipate Redirecting Funds?	No			
Percent Complete:	Less than 25%	Funds Expen	ded: \$.00	with in the Budget Year?						
Grantee Activity:			Grantee Activity Progress:			Barriers:				
The California Level Three laboratory will participate in the development of improved methods for critical analytes, chosen in collaboration with CDC.			improvement will host the April and wi	ate in the development of nts to the CDC methods. Califor e annual Level-Three meeting t Ill deliver two papers on methon nt at this meeting.	his	Limited staff prevents more robust method development efforts.				

[EC-8 ::EA-4]	Provide surge o	capacity to CD	C and serve	as a referral laboratory for Level-	aboratory for Level-One and Level-Two laboratories				
Status Complete:	plete: In Progress Fund Commi			tted: \$.00 Anticipated Completing Yes		es Anticipate Redirecting Funds?	No		
Percent Complete:	Less than 25%	Funds Expen	ded: \$.00	with in the Budget Year?					
Grantee Activity:			Grantee Activity Progress:			Barriers:			
Maintain Level Three basis. 1. Maintain all readiness 2. Ensure Maintain adequate le 4. Maintain commun establish communica partners in Los Ange	equipment in a currently traine evel of reagents ication with CD otion with Level	a state of d analysts 3. and supplies C, and One or Two	readiness. V trained. We and supplies CDC, and ha	n all equipment in a state of We ensure our staff is currently maintain adequate level of reage s. We maintain communication wi ave established communication w r Two partners in Los Angeles and	ith ith	Limited staff prevents full surge capacity response.			

[EC-8 ::EA-5]	Develop and in	nplement a pla	n for 24/7 s	staff coverage in the event of a	chemic	al terrorism emergency
Status Complete:	Not Addressed	Fund Commit	ted: \$.00	Anticipated Completing	Yes	Anticipate Redirecting Funds? No
Percent Complete:	-	Funds Expen	ded: \$.00	with in the Budget Year?		
Grantee Activity:			Grantee A	Activity Progress:		Barriers:
A 24/7 system of communication was previously established between Focus Area D staff, using email, telephone, and pagers. Staff takes turns (for two week at a time) being the emergency contact. The newly hired CT Coordinator and Assistant CT Coordinator were added to the 24/7-response team. In an event or a drill, the emergency contact activates the response plan that begins with calling the laboratory director, who calls in support as needed.			On top of the existing Focus Area D call-back system, the Department has established a duty officer assigned to public health emergency		As with all other areas of readiness, the state has struggled due to hiring freezes that have impacted the ability to hire staff.	